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(72)Inventor : BACKER JOSEPHUS W M
DE BIE CORNELIA M J

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(54) LOW PRESSURE MERCURY DISCHARGE LAMP

(57)Abstract:

PURPOSE: To provide a low pressure mercury discharge lamp which considerably enhances its luminous efficiency and which maintains greatly excellent color rendering properties and which has a very low degradation speed of the lamp during its lifetime.

CONSTITUTION: This low pressure mercury discharge lamp extremely excellent in color rendering properties has a color point (xL, yL in a full radiator locus or in the neighborhood thereof, and includes a leakless radiation transmission envelope containing mercury and rare gases, and also includes a luminescent layer. This luminescent layer comprises a first luminescent material which is activated by bivalent europium and which has an emission band having a maximum value of 470 to 500nm and a half width of at most 90nm, and a second luminescent material which is activated by bivalent manganese and which has at least an emission band mainly in a red region of visible spectrum. In addition, the luminescent layer comprises a third luminescent material which has an emission band having a maximum value of 430 to 490nm, a fourth luminescent material for generating light mainly in the range of 520 to 565nm, and a fifth luminescent material for generating light mainly in the range of 590 to 630nm.

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